1. Ahypodermic needle, comprising:

a hollow tube having an angled end with respect to a longitudinal axis of the tube, the end having an opening surrounded by an external peripheral rim,

wherein at least a portion of the external peripheral rim is beveled back at least 25%, to form an internal beveled surface.

- 2. The hypodermic needle of claim 1, wherein the at least a portion of the external peripheral rim is beveled back at least 30%.
- 3. The hypodermic needle of claim 1, wherein the at least a portion of the external peripheral rim is beveled back at least 35%.
- 4. The hypodermic needle of claim 1, wherein the at least a portion of the external peripheral rim is beveled back at least 40%.
- 5. The hypodermic needle of claim 1, wherein the at least a portion of the external peripheral rim is beveled back at least 50%.
- 6. The hypodermic needle of claim 1, wherein the internal beveled surface is curved.
- 7. The hypodermic needle of claim 1, wherein a circle coincident with the curvature of the internal beveled surface has a radius of curvature that is at least 25% of a thickness of a wall of the needle.
- 8. The hypodermic needle of claim 1, wherein the internal beveled surface surrounds 5-85% of the opening.
- 9. The hypodermic needle of claim 1, wherein the internal beveled surface surrounds 20-70% of the opening.
 - 10. A hypodermic needle, comprising:

a hollow tube having an angled end with respects to a longitudinal axis of the tube, the end having an opening surrounded by an external peripheral rim, and

means for reducing fluid stress at the entrance of the needle.

15

15

July 20

25

July 3

5

15

E

30

- 11. n a hypodermic needle having an internal substantially cylindrical surface; an external substantially cylindrical surface; an end angled with respect to a longitudinal axis of the needle, the end having an opening and defining a piercing tip; an outer peripheral rim, the rim partially surrounding a first region of the opening proximal to the piercing tip and connecting the external and internal cylindrical surfaces of the needle; the improvement comprising an internal beveled surface on the internal surface of the needle partially surrounding a second region of said opening opposite the first region, wherein the degree of beveling back of the rim is at least 25%.
- The hypodermic needle of claim 11, wherein the at least a 12. portion of the external peripheral rim is beveled back at least 30%.
- The hypodermic needle of claim 11, wherein the at least a 13. portion of the external peripheral rim is beveled back at least 50%.
- A method of preparing a sample, comprising withdrawing 14. blood with the hypodermic needle of Claim 1.
- In a method of preparing a sample, comprising withdrawing 15. blood with a hypodermic needle having an internal substantially cylindrical surface; an external substantially cylindrical surface; an end angled with respect to a longitudinal axis of the needle, the end having an opening and defining a piercing tip; an outer peripheral rim, the rim partially surrounding a first region of the opening proximal to the piercing tip and connecting the external and internal dylindrical surfaces of the needle; the improvement comprising withdrawing the blood with a hypodermic needle having an internal beveled surface on the internal surface of the needle partially surrounding a second region of said opening opposite the first region, wherein the degree of be veling back of the rim is at least 25%.
- A method of making the hypodermic needle of claim 1, 16. comprising:

beveling back an external peripheral rim of a hypodermic needle.

17. A method of making the hypodermic needle of claim 2, comprising:

beveling back an external peripheral rim of a hypodermic needle.

18. A method of making the hypodermic needle of claim 3, comprising:

beveling back an external peripheral rim of a hypodermic needle.

19. A method of making the hypodermic needle of claim 7, comprising:

beveling back an external peripheral rim of a hypodermic needle.

20. A method of making the hypodermic needle of claim 8, comprising:

beveling back an external peripheral rim of a hypodermic needle.

15

5

10